

Iskenderian Year 2 Figure Captions

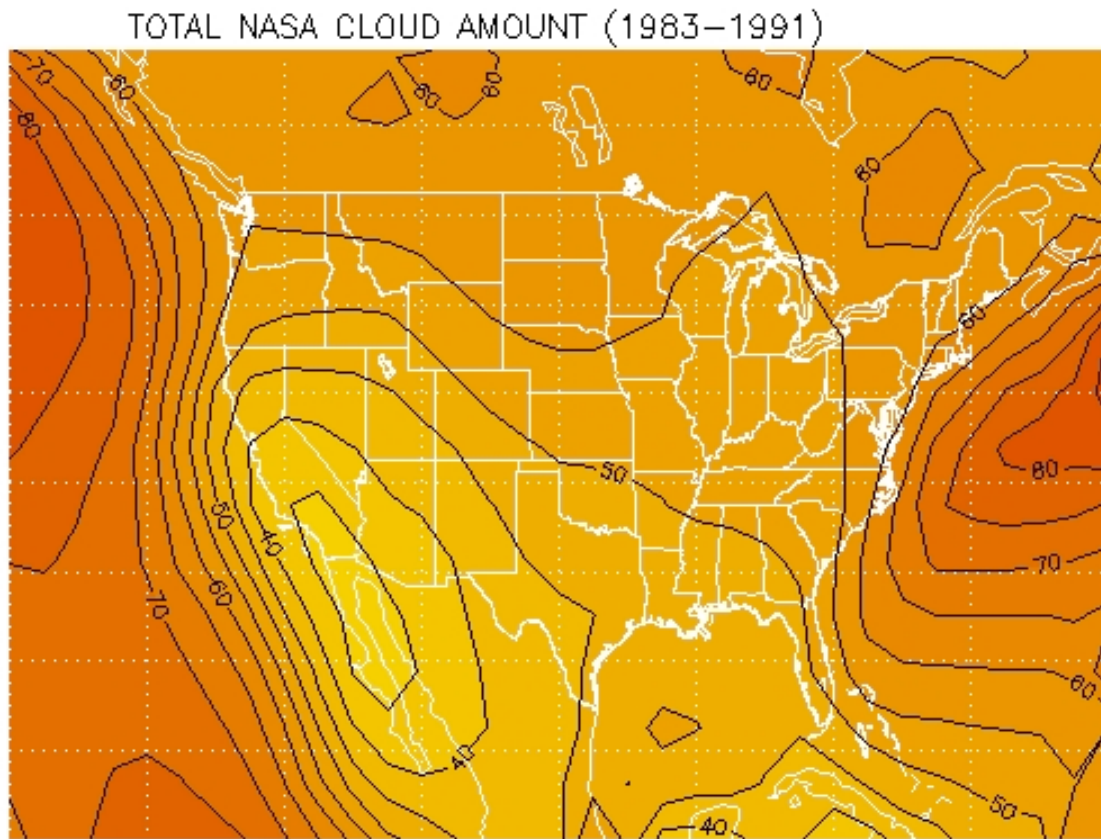


Figure 1. Mean total cloud amount from the ISCCP C1 data for the 8-year period of July 1983 to June 1991. Values every 5 % are contoured.

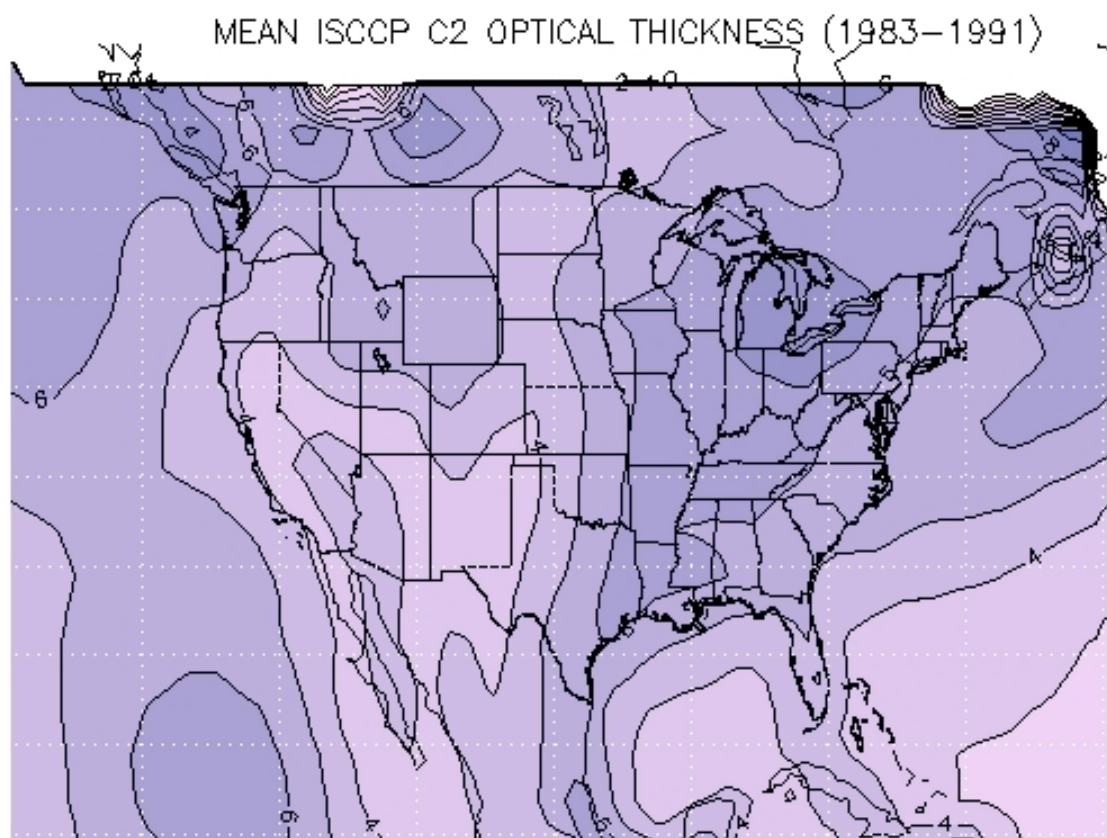


Figure 2b. Mean cloud optical thickness (dimensionless) for the 8-year period of July 1983 to June 1991 from the NASA SRB data set. Values every 1 are contoured.

Figure 3. Mean total water vapor burden (kg m^{-2}) for the 8-year period of July 1983 to June 1991 from the NASA SRB data set. Values every 2 are contoured.

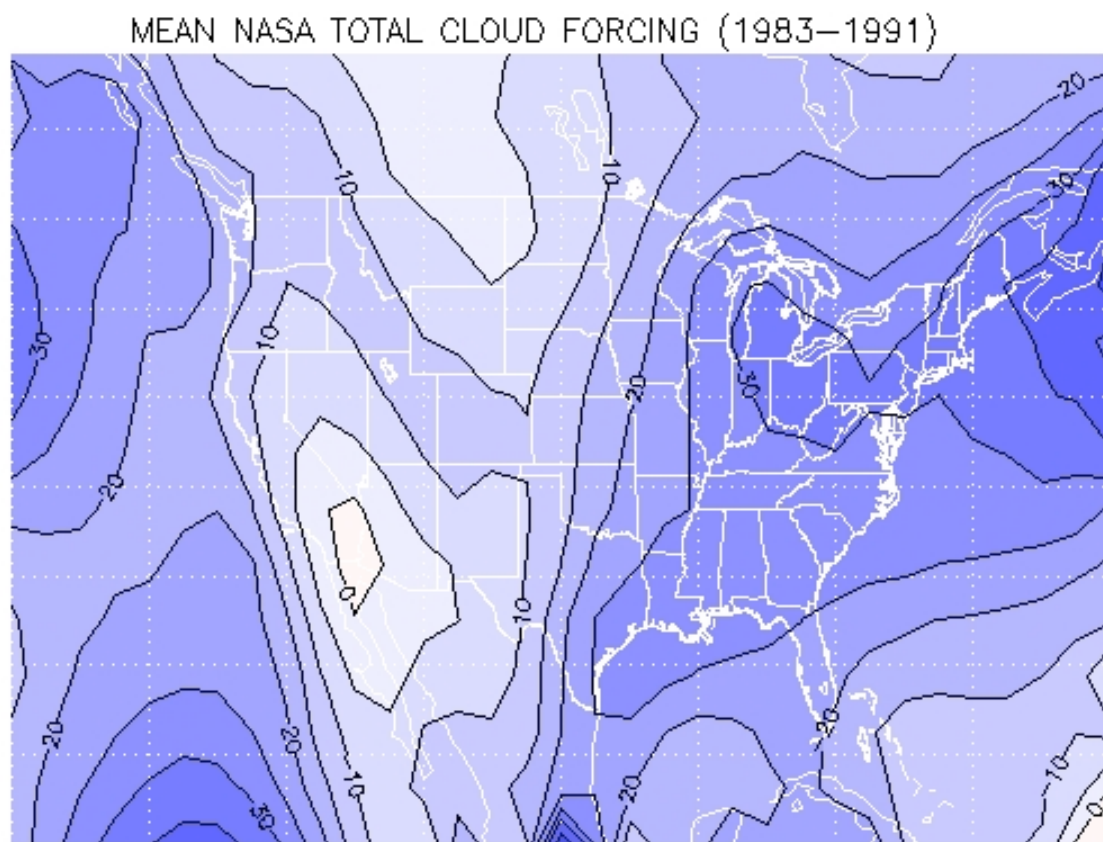


Figure 4. Mean total surface cloud forcing for the 8-year period of July 1983 to June 1991 from the NASA SRB data set. Values every 5 W m^{-2} are contoured.

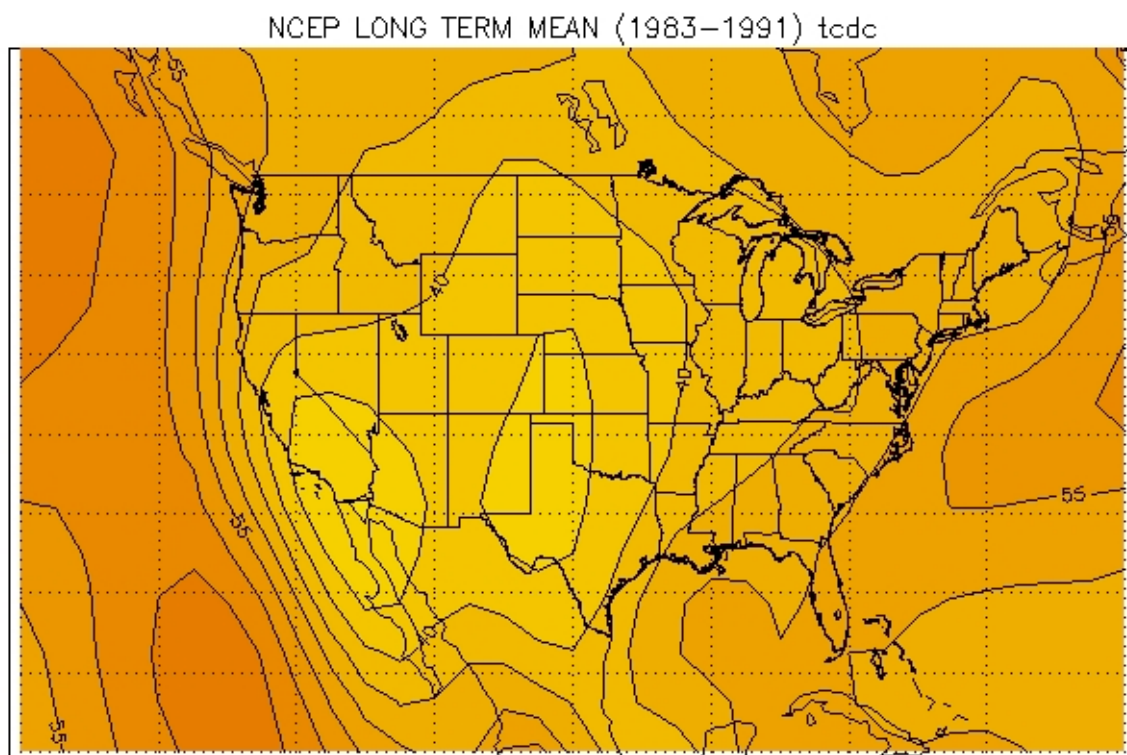


Figure 5. Mean total cloud amount from the NCEP/NCAR reanalysis for the 8-year period of July 1983 to June 1991. Values every 5 % are contoured.

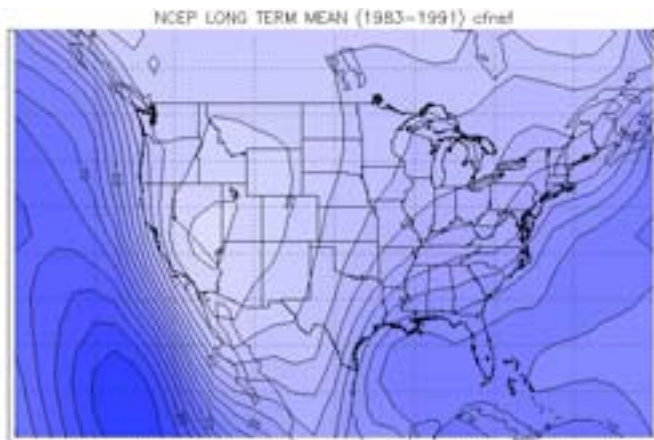


Fig 6a

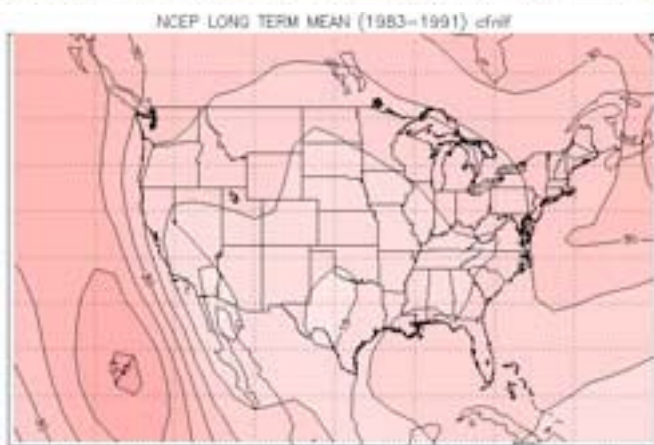


Fig 6b

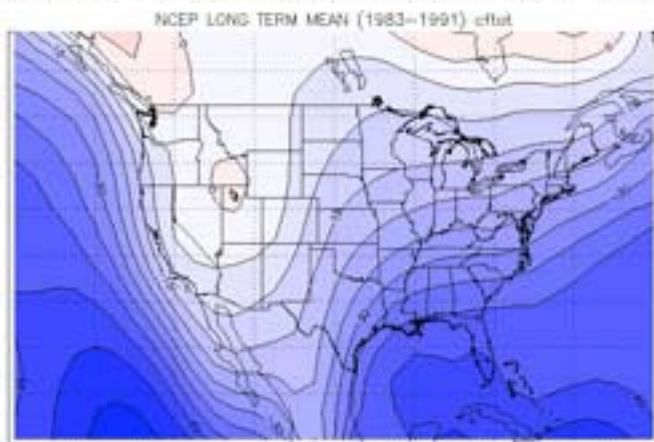


Fig 6c

Figure 6. Mean (a) shortwave, (b) longwave, and (c) total surface cloud forcing for the 8-year period of July 1983 to June 1991 from the NCEP/NCAR reanalysis data set. Values every 5 W m^{-2} are contoured.

AMPLITUDE and PHASE of NASA cp 1st Harmonic

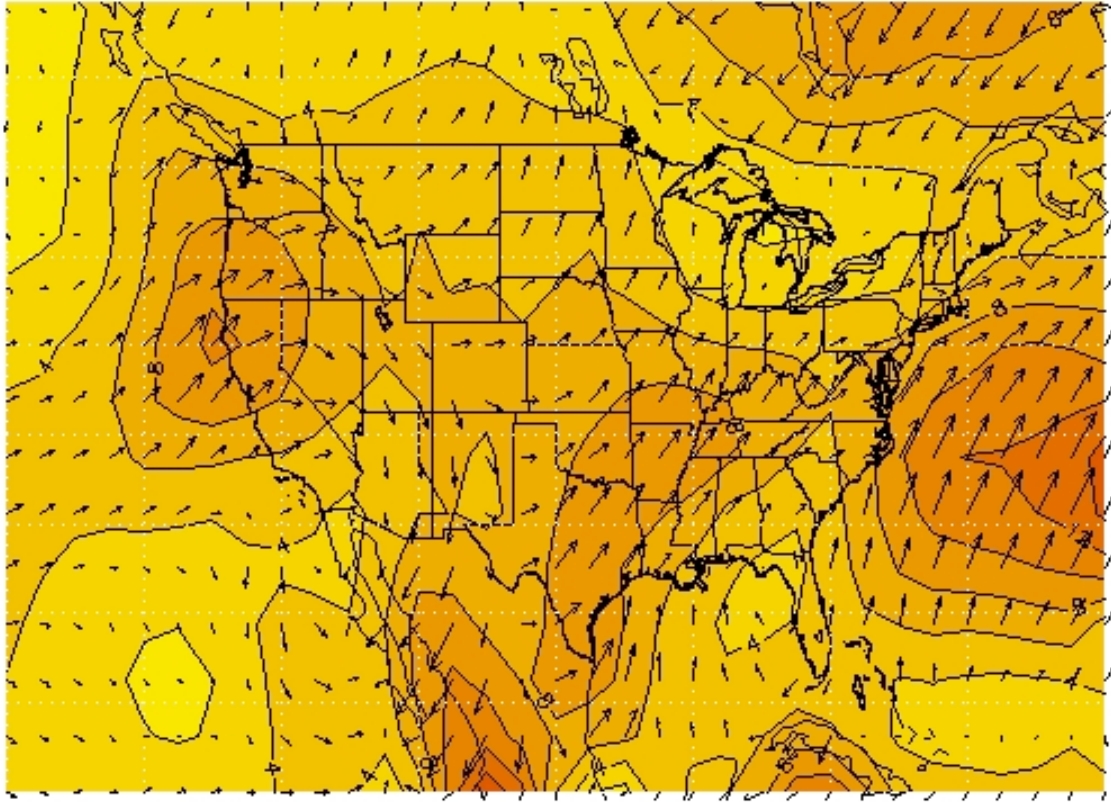


Figure 7. Phase and amplitude of the first harmonic of total cloud amount based on monthly-mean data from the NASA SRB data set. Amplitudes are contoured every 2 %. The length of the arrow is scaled to the amplitude, and the orientation of arrow indicates the month during which the first harmonic is a maximum. An arrow with a 12 o'clock orientation indicates a January maximum, and orientation rotates through the calendar months in a clockwise fashion.

AMPLITUDE and PHASE of NASA swcf 1st Harmonic

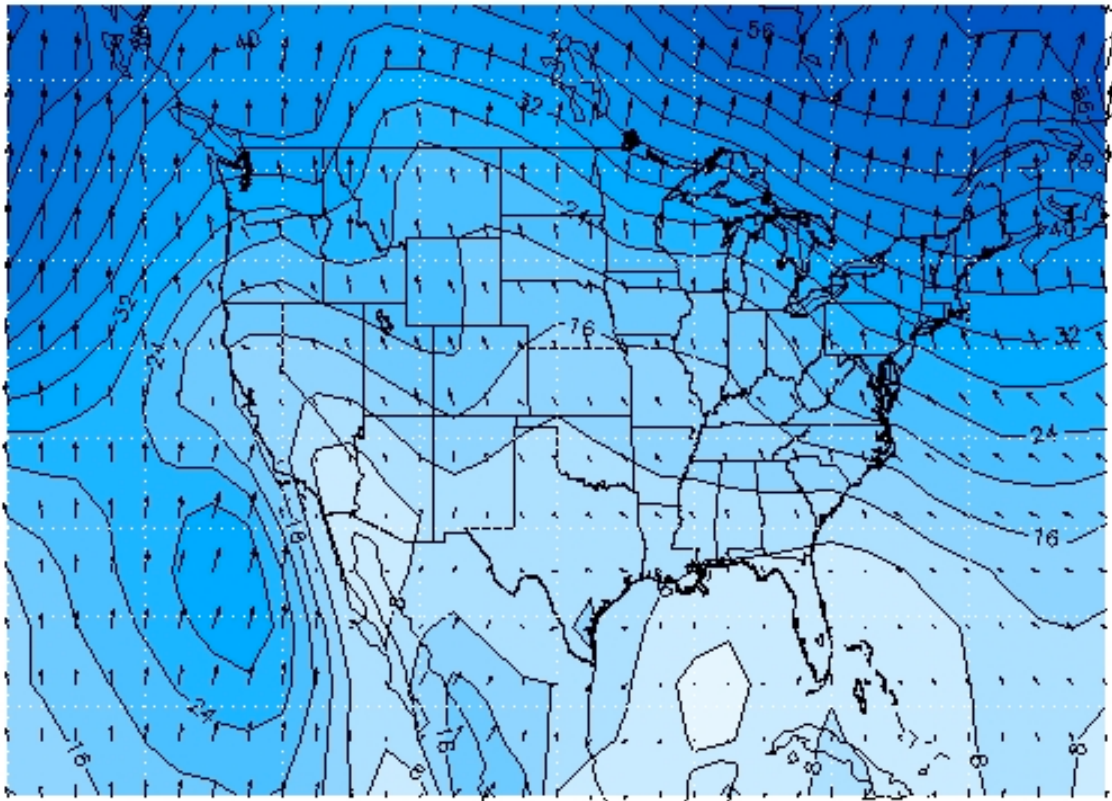


Figure 8. Phase and amplitude of the first harmonic of shortwave surface cloud forcing based on monthly-mean data from the NASA SRB data set. Amplitudes are contoured every 4 W m^{-2} . The convention for the arrow is as in Figure 7.

AMPLITUDE and PHASE of NASA lwcf 1st Harmonic

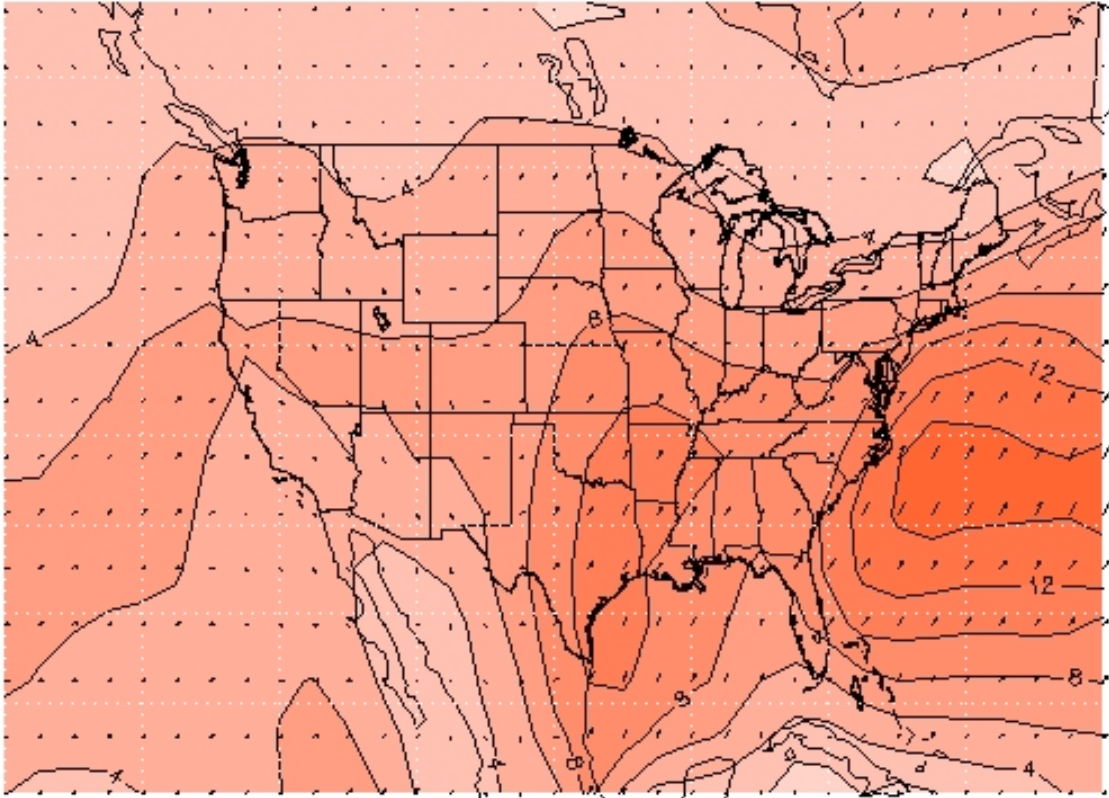


Figure 9a. Phase and amplitude of the first harmonic of longwave surface cloud forcing based on monthly-mean data from the NASA SRB data set. Amplitudes are contoured every 4 W m^{-2} . The convention for the arrow is as in Figure 7.

AMPLITUDE and PHASE of NASA wv 1st Harmonic

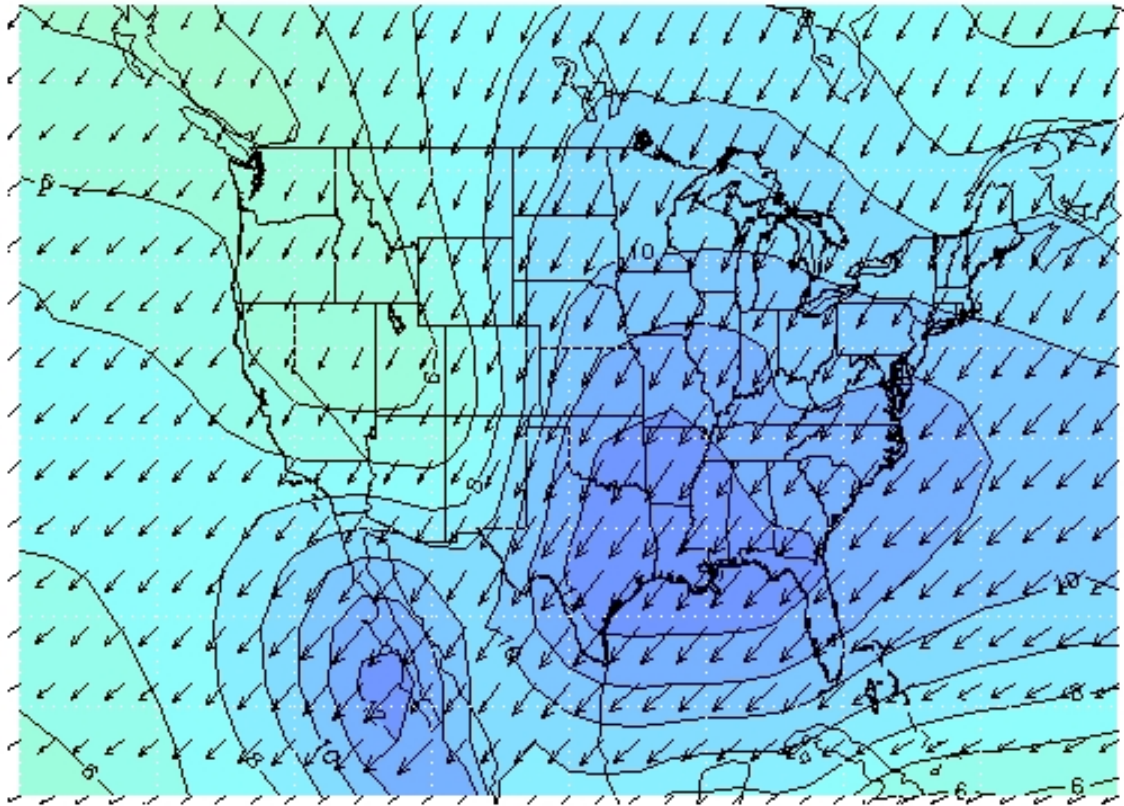


Figure 9b. Phase and amplitude of the first harmonic of water vapor burden based on monthly-mean data from the NASA SRB data set. Amplitudes are contoured every 2 kg m⁻². The convention for the arrow is as in Figure 7.